### **INDEX TO VOLUME 318**

## March-April 1990

Andjel, Enrique D. Ergodic and mixing properties of equilibrium measures for Markov processes, 601.

Benkart, Georgia and Osborn, J. Marshall. Simple Lie algebras of characteristic p with dependent roots, 783.

Blanc, David A. A Hurewicz spectral sequence for homology, 335.

Calderón, Calixto P. Existence of weak solutions for the Navier-Stokes equations with initial data in L<sup>p</sup>, 179.

——. Addendum to the paper "Existence of weak solutions for the Navier-Stokes equations with initial data in L<sup>p</sup>", 201.

Capuzzo-Dolcetta, I. and Lions, P.-L. Hamilton-Jacobi equations with state constraints, 643.

Chanillo, Sagun and Sawyer, Eric. Unique continuation for  $\Delta + v$  and the C. Fefferman-Phong class, 275.

Ciesielski, Krzysztof. Algebraically invariant extensions of σ-finite measures on Euclidean space, 261.

Cima, Anna and Llibre, Jaume. Bounded polynomial vector fields, 557.

Douglass, J. Matthew. Cells and the reflection representation of Weyl groups and Hecke algebras, 373.

Freiling, Chris. Symmetric derivates, scattered, and semi-scattered sets, 705.

Hinkkanen, A. Abelian and nondiscrete convergence groups on the circle, 87.

Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators, 237.

— Domain-independent upper bounds for eigenvalues of elliptic operators, 615.

Howe, Roger. Erratum to "Remarks on classical invariant theory", 823.

Kauffman, Louis H. An invariant of regular isotopy, 417.

Kechris, A. S. and Louveau, A. A classification of Baire class 1 functions, 209.

Kifer, Yuri and Ledrappier, Francois. Hausdorff dimension of harmonic measures on negatively curved manifolds, 685.

Krupski, Pawel and Prajs, Janusz R. Outlet points and homogeneous continua, 123.

Kulesza, John. Metrizable spaces where the inductive dimensions disagree, 763.

Lamken, E. R. Generalized balanced tournament designs, 473.

Ledrappier, Francois. See Kifer, Yuri

Li, Dening. A one-phase hyperbolic Stefan problem in multi-dimensional space, 401.

Lin, Henry. Some weighted inequalities on product domains, 69.

Lions, P.-L. See Capuzzo-Dolcetta, I.

Louveau, A. See Kechris, A. S.

McConnell, Terry R. A conformal inequality related to the conditional gauge theorem, 721.

Menninga, Nadine L. Immersions of positively curved manifolds into manifolds with curvature bounded above, 809.

Mrozek, Marian. Leray functor and cohomological Conley index for discrete dynamical systems, 149.

Orloff, Jeremy. Invariant Radon transforms on a symmetric space, 581.

Osborn, J. Marshall. See Benkart, Georgia

Prajs, Janusz R. Homogeneous continua in Euclidean (n + 1)-space which contain an n-cube are n-manifolds, 143.

- See Krupski, Pawel

Sakai, Katsuro and Wong, Raymond Y. On infinite-dimensional manifold triples, 545.

Sawyer, Eric. See Chanillo, Sagun

Song, Hyun-Jong and Wilson, W. Stephen. On the nonimmersion of products of real projective spaces, 327.

Spraker, John. The minimal normal extension for  $M_z$  on the Hardy space of a planar region, 57.

#### **INDEX TO VOLUME 318**

Stein, David. Massey products in the cohomology of groups with applications to link theory, 301.
Strömberg, Jan-Olov and Wheeden, Richard L. Weighted norm estimates for the Fourier transform with a pair of weights, 355.

Trace, Bruce. Unknotted homology classes on unknotted surfaces in S<sup>3</sup>, 43.

Ulrich, Bernd. Sums of linked ideals, 1.

Wallstrom, Timothy C. Ergodicity of finite-energy diffusions, 735.

----. The stochastic mechanics of the Pauli equation, 749.

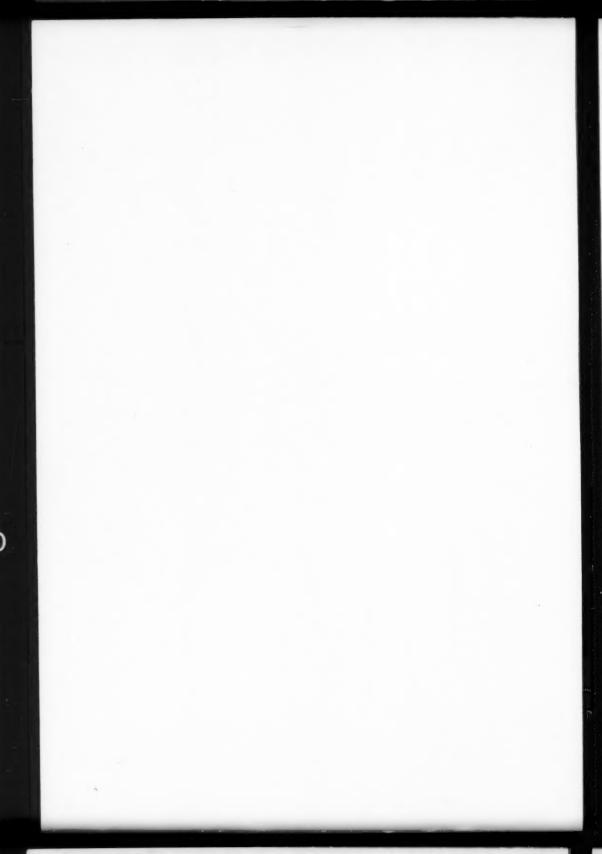
Wheeden, Richard. See Stromberg, Jan-Olov

Wheeler, Ferrell S. Two differential-difference equations arising in number theory, 491.

Wilson, W. Stephen. See Song, Hyun-Jong Wong, Raymond Y. See Sakai, Katsuro

Young, Lai-Sang. Large deviation results for dynamical systems, 525.





# TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY

## CONTENTS

Vol. 318, No. 1	March 1990 W	hole No.	658
Sums of linked ideals			
By Bernd Ulrich			1
Unknotted homology class	sses on unknotted surfaces in $S^3$		
			43
The minimal normal ext region	tension for $M_z$ on the Hardy space of a	planar	
			57
	lar are another democrat		31
Some weighted inequaliti	_		(0
			69
	convergence groups on the circle		0.5
			87
Outlet points and homog			
	and Janusz R. Prajs		123
Homogeneous continua ir are <i>n</i> -manifolds	n Euclidean $(n+1)$ -space which contain ar	n-cube	
By Janusz R. Prajs	S		143
	ological Conley index for discrete dynam		
tems			
By Marian Mroze	к		149
	ons for the Navier-Stokes equations with		
data in $L^p$	•		
By Calixto P. Cal	DERÓN		179
	Existence of weak solutions for the Navie		
equations with initial			
	DERÓN		201
A classification of Baire			
By A. S. KECHRIS at	nd A. Louveau		209
•	nes of selfadjoint operators		
	OK		237
•	stensions of $\sigma$ -finite measures on Euclidea		
	SIELSKI		261
	$\Delta + v$ and the C. Fefferman-Phong class		
	o and Eric Sawyer		275
-,	cohomology of groups with applications		
theory	conomically of Broads with applications		
•			301
By DAVID STEIN			501

Hausdorff dimension of harmonic measures on negatively curved manifolds	
By Yuri Kifer and Francois Ledrappier	685
Symmetric derivates, scattered, and semi-scattered sets	
By Chris Freiling	705
A conformal inequality related to the conditional gauge theorem	
By Terry R. McConnell	721
Ergodicity of finite-energy diffusions	
By Timothy C. Wallstrom	735
The stochastic mechanics of the Pauli equation	
By Timothy C. Wallstrom	749
Metrizable spaces where the inductive dimensions disagree	
By John Kulesza	763
Simple Lie algebras of characteristic $p$ with dependent roots	
By Georgia Benkart and J. Marshall Osborn	783
Immersions of positively curved manifolds into manifolds with curvature bounded above	
By Nadine L. Menninga	809
Erratum to "Remarks on classical invariant theory"	
Ry ROGER HOWE	823